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## RAW SEQUENCE LISTING

DATE: 07/24/2002 P.6

PATENT APPLICATION: US/09/847,102A

TIME: 11:41:11

Input Set : D:\22000-20629.txt

Output Set: N:\CRF3\07242002\I847102A.raw

```

4 <110> APPLICANT: University of California
5     Carson, Dennis A.
6     Corr, Maripat
7     Rhee, Chae-Seo
8     Lorenzo, Leoni M.
9     Malini, Sen
11 <120> TITLE OF INVENTION: IMMUNOLOGIC COMPOSITIONS AND METHODS FOR
12     STUDYING AND TREATING CANCERS EXPRESSING FRIZZLED ANTIGENS
15 <130> FILE REFERENCE: 22000-20629.00
17 <140> CURRENT APPLICATION NUMBER: 09/847,102A
18 <141> CURRENT FILING DATE: 2001-05-01
20 <160> NUMBER OF SEQ ID NOS: 138
22 <170> SOFTWARE: FastSEQ for Windows Version 4.0
24 <210> SEQ ID NO: 1
25 <211> LENGTH: 20
26 <212> TYPE: DNA
27 <213> ORGANISM: Artificial Sequence
29 <220> FEATURE:
30 <223> OTHER INFORMATION: Forward primer
32 <400> SEQUENCE: 1
33 cccagagctg caagagctac
35 <210> SEQ ID NO: 2
36 <211> LENGTH: 22
37 <212> TYPE: DNA
38 <213> ORGANISM: Artificial Sequence
40 <220> FEATURE:
41 <223> OTHER INFORMATION: Forward primer
43 <400> SEQUENCE: 2
44 gccgtgccgc tctatctgtg ag
46 <210> SEQ ID NO: 3
47 <211> LENGTH: 28
48 <212> TYPE: DNA
49 <213> ORGANISM: Artificial Sequence
51 <220> FEATURE:
52 <223> OTHER INFORMATION: Forward primer
54 <400> SEQUENCE: 3
55 ataggcctga tcatctgaat ctccttca
57 <210> SEQ ID NO: 4
58 <211> LENGTH: 28
59 <212> TYPE: DNA
60 <213> ORGANISM: Artificial Sequence
62 <220> FEATURE:
63 <223> OTHER INFORMATION: Forward primer

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## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/847,102A

DATE: 07/24/2002

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Input Set : D:\22000-20629.txt

Output Set: N:\CRF3\07242002\I847102A.raw

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65 <400> SEQUENCE: 4
66 aacctcggct acaacgtgag accaagat 28
68 <210> SEQ ID NO: 5
69 <211> LENGTH: 22
70 <212> TYPE: DNA
71 <213> ORGANISM: Artificial Sequence
73 <220> FEATURE:
74 <223> OTHER INFORMATION: Forward primer
76 <400> SEQUENCE: 5
77 atcggctaca acctgacgca ca 22
79 <210> SEQ ID NO: 6
80 <211> LENGTH: 28
81 <212> TYPE: DNA
82 <213> ORGANISM: Artificial Sequence
84 <220> FEATURE:
85 <223> OTHER INFORMATION: Forward primer
87 <400> SEQUENCE: 6
88 tctggaatgt tcaccaaaca ttgaaact 28
90 <210> SEQ ID NO: 7
91 <211> LENGTH: 25
92 <212> TYPE: DNA
93 <213> ORGANISM: Artificial Sequence
95 <220> FEATURE:
96 <223> OTHER INFORMATION: Forward primer
98 <400> SEQUENCE: 7
99 ctcatgaaca agttcggctt ccagt 25
101 <210> SEQ ID NO: 8
102 <211> LENGTH: 27
103 <212> TYPE: DNA
104 <213> ORGANISM: Artificial Sequence
106 <220> FEATURE:
107 <223> OTHER INFORMATION: Forward primer
109 <400> SEQUENCE: 8
110 gatgaggatg agagtgaggt gacatcc 27
112 <210> SEQ ID NO: 9
113 <211> LENGTH: 18
114 <212> TYPE: DNA
115 <213> ORGANISM: Artificial Sequence
117 <220> FEATURE:
118 <223> OTHER INFORMATION: Forward primer
120 <400> SEQUENCE: 9
121 cacgcgctgt gcatggag 18
123 <210> SEQ ID NO: 10
124 <211> LENGTH: 19
125 <212> TYPE: DNA
126 <213> ORGANISM: Artificial Sequence
128 <220> FEATURE:
129 <223> OTHER INFORMATION: Forward primer
131 <400> SEQUENCE: 10

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## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/847,102A

DATE: 07/24/2002

TIME: 11:41:11

Input Set : D:\22000-20629.txt

Output Set: N:\CRF3\07242002\I847102A.raw

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132 catggaggcg cccaacaac 19
134 <210> SEQ ID NO: 11
135 <211> LENGTH: 20
136 <212> TYPE: DNA
137 <213> ORGANISM: Artificial Sequence
139 <220> FEATURE:
140 <223> OTHER INFORMATION: Reverse primer
142 <400> SEQUENCE: 11
143 cacgatcagc gtcataaggt 20
145 <210> SEQ ID NO: 12
146 <211> LENGTH: 18
147 <212> TYPE: DNA
148 <213> ORGANISM: Artificial Sequence
150 <220> FEATURE:
151 <223> OTHER INFORMATION: Reverse primer
153 <400> SEQUENCE: 12
154 gtggcgcggg aagtgtc 18
156 <210> SEQ ID NO: 13
157 <211> LENGTH: 28
158 <212> TYPE: DNA
159 <213> ORGANISM: Artificial Sequence
161 <220> FEATURE:
162 <223> OTHER INFORMATION: Reverse primer
164 <400> SEQUENCE: 13
165 tcttggcaca tcctcaaggt aataggtt 28
167 <210> SEQ ID NO: 14
168 <211> LENGTH: 27
169 <212> TYPE: DNA
170 <213> ORGANISM: Artificial Sequence
172 <220> FEATURE:
173 <223> OTHER INFORMATION: Reverse primer
175 <400> SEQUENCE: 14
176 gtactggatg agcgggtgtga aagttgt 27
178 <210> SEQ ID NO: 15
179 <211> LENGTH: 27
180 <212> TYPE: DNA
181 <213> ORGANISM: Artificial Sequence
183 <220> FEATURE:
184 <223> OTHER INFORMATION: Reverse primer
186 <400> SEQUENCE: 15
187 atgggcgtgt acatagtgtca taggaag 27
189 <210> SEQ ID NO: 16
190 <211> LENGTH: 28
191 <212> TYPE: DNA
192 <213> ORGANISM: Artificial Sequence
194 <220> FEATURE:
195 <223> OTHER INFORMATION: Reverse primer
197 <400> SEQUENCE: 16
198 tttctcataa agtttacgac aaggtgga 28

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## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/847,102A

DATE: 07/24/2002

TIME: 11:41:11

Input Set : D:\22000-20629.txt

Output Set: N:\CRF3\07242002\I847102A.raw

```

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201 <211> LENGTH: 20
202 <212> TYPE: DNA
203 <213> ORGANISM: Artificial Sequence
205 <220> FEATURE:
206 <223> OTHER INFORMATION: Reverse primer
208 <400> SEQUENCE: 17
209 cgcggtaggg taggcagtgg                                20
211 <210> SEQ ID NO: 18
212 <211> LENGTH: 25
213 <212> TYPE: DNA
214 <213> ORGANISM: Artificial Sequence
216 <220> FEATURE:
217 <223> OTHER INFORMATION: Reverse primer
219 <400> SEQUENCE: 18
220 actcagactt cctggctctc aggtg                                25
222 <210> SEQ ID NO: 19
223 <211> LENGTH: 27
224 <212> TYPE: DNA
225 <213> ORGANISM: Artificial Sequence
227 <220> FEATURE:
228 <223> OTHER INFORMATION: Reverse primer
230 <400> SEQUENCE: 19
231 ggctcttctc cacgtactgg aacttct                                27
233 <210> SEQ ID NO: 20
234 <211> LENGTH: 20
235 <212> TYPE: DNA
236 <213> ORGANISM: Artificial Sequence
238 <220> FEATURE:
239 <223> OTHER INFORMATION: Reverse primer
241 <400> SEQUENCE: 20
242 gtccttcagc gggtgctcct                                20
244 <210> SEQ ID NO: 21
245 <211> LENGTH: 24
246 <212> TYPE: DNA
247 <213> ORGANISM: Artificial Sequence
249 <220> FEATURE:
250 <223> OTHER INFORMATION: FZD2 primer (reverse)
252 <400> SEQUENCE: 21
253 cagcgtcttg cccgaccaga tcca                                24
255 <210> SEQ ID NO: 22
256 <211> LENGTH: 24
257 <212> TYPE: DNA
258 <213> ORGANISM: Artificial Sequence
260 <220> FEATURE:
261 <223> OTHER INFORMATION: FZD2 primer (forward)
263 <400> SEQUENCE: 22
264 ctagcgccgc tcttcgtgta cctg                                24
266 <210> SEQ ID NO: 23

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## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/847,102A

DATE: 07/24/2002

TIME: 11:41:11

Input Set : D:\22000-20629.txt

Output Set: N:\CRF3\07242002\I847102A.raw

```

267 <211> LENGTH: 21
268 <212> TYPE: DNA
269 <213> ORGANISM: Artificial Sequence
271 <220> FEATURE:
272 <223> OTHER INFORMATION: FZD 5 primer (forward)
274 <400> SEQUENCE: 23
275 ttcatgtgcc tgggtggtggg c                21
277 <210> SEQ ID NO: 24
278 <211> LENGTH: 21
279 <212> TYPE: DNA
280 <213> ORGANISM: Artificial Sequence
282 <220> FEATURE:
283 <223> OTHER INFORMATION: FZD5 primer (reverse)
285 <400> SEQUENCE: 24
286 tacacgtgcg acagggacac c                21
288 <210> SEQ ID NO: 25
289 <211> LENGTH: 20
290 <212> TYPE: DNA
291 <213> ORGANISM: Artificial Sequence
293 <220> FEATURE:
294 <223> OTHER INFORMATION: G3PDH primer (forward)
296 <400> SEQUENCE: 25
297 accacagtcc atgccatcac                20
299 <210> SEQ ID NO: 26
300 <211> LENGTH: 20
301 <212> TYPE: DNA
302 <213> ORGANISM: Artificial Sequence
304 <220> FEATURE:
305 <223> OTHER INFORMATION: G3PDH primer (reverse)
307 <400> SEQUENCE: 26
308 tacagcaaca ggggtggtgga                20
310 <210> SEQ ID NO: 27
311 <211> LENGTH: 75
312 <212> TYPE: PRT
313 <213> ORGANISM: Artificial Sequence
315 <220> FEATURE:
316 <223> OTHER INFORMATION: pFZD2-TT
318 <400> SEQUENCE: 27
319 Met Cys Val Gly Gln Asn His Ser Glu Asp Gly Ala Pro Ala Leu Leu
320 1      5      10      15
321 Thr Thr Ala Pro Pro Pro Gly Leu Gln Pro Gly Ala Gly Gly Thr Pro
322      20      25      30
323 Gly Gly Pro Gly Gly Gly Gly Ala Pro Pro Arg Tyr Ala Thr Leu Glu
324      35      40      45
325 His Pro Phe His Cys Gly Pro Ser Leu Val Asp Asp Ala Leu Ile Asn
326      50      55      60
327 Ser Thr Lys Ile Tyr Ser Tyr Phe Pro Ser Val
328 65      70      75
330 <210> SEQ ID NO: 28

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RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/09/847,102A

DATE: 07/24/2002  
TIME: 11:41:12

Input Set : D:\22000-20629.txt  
Output Set: N:\CRF3\07242002\I847102A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:60; Xaa Pos. 464

VERIFICATION SUMMARY

DATE: 07/24/2002

PATENT APPLICATION: US/09/847,102A

TIME: 11:41:12

Input Set : D:\22000-20629.txt

Output Set: N:\CRF3\07242002\I847102A.raw

L:2562 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:60 after pos.:448